

## Annex 1.1

Search term = sucrose transporter

Sucrose transporter coding sequences available in EMBL or SwissProt databases prior to August 07, 1997



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Query "((((([libs={embl swissprot}-Description:sucrose\*]) & [libs={embl swissprot}-Description:transporter\*]) | [libs={embl swissprot}-Description:sucrose transporter\*]) & [libs-DateCreated#19000101:19970806])" found 5 entries

EMBL	ID	Accession Number	Molecule	Description	Organism	Date created
EMBL:LESUT1	LESUT1	X82275	RNA	L.esculentum SUT1 mRNA for sucrose transporter	Lycopersicon esculentum (tomato) Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Asteridae; lamiales; Solanales; Solanaceae; Solanum; Lycopersicon.	28-OCT-1994
EMBL:NTSUT1A	NTSUT1A	X82276	RNA	N.tabacum SUT1a mRNA for sucrose transporter	Nicotiana tabacum (common tobacco) Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Asteridae;	28-OCT-1994

## Annex 1.2

Search term = sucrose permease

Sucrose transporter coding sequences available in EMBL or SwissProt databases prior to August 07, 1997



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Query "((((([libs={embl swissprot}-Description:sucrose\*] & [libs={embl swissprot}-Description:permease\*]) | [libs={embl swissprot}-Description:**sucrose permease\***]) & [libs-DateCreated#19000101:19970807]) " found 12 entries

Swiss-Prot EMBL	ID	AccNumber	Molecule	Description	Organism	DateCreated
Swiss-Prot:CSCB_ECOLI	CSCB_ECOLI	P30000		Sucrose transport protein (Sucrose permease).	ESCHERICHIA COLL. BACTERIA; PROTEOBACTERIA; GAMMAPROTEOBACTERIA; ENTEROBACTERIALES; ENTEROBACTERIACEAE; ESCHERICHIA.	01-APR-1993
Swiss-Prot:PTSA_LACLA	PTSA_LACLA	Q04938		PTS system, sucrose-specific IIABC component (EIIBAC-SCR) (Sucrose-permease IIABC component) (Phosphotransferase	LACTOCOCCUS LACTIS (SUBSP. LACTIS) (STREPTOCOCCUS LACTIS), BACTERIA; FIRMICUTES; LACTOBACILLALES; STREPTOCOCCACEAE; LACTOCOCCUS.	01-JUN-1994

			enzyme II, ABC component) (EC 2.7.1.69) (EII-SCR) (Fragment).		
└ <u>Swiss-Prol:PTSA_PEDPE</u>	PTSA_PEDPE	<u>P43470</u>	PTS system, sucrose-specific IIABC component (EIIABC-SCR) (Sucrose-permease IIABC component) (Phosphotransferase enzyme II, ABC component) (EC 2.7.1.69) (EII-SCR).	PEDIOCOCCUS PENTOSACEUS. BACTERIA; FIRMICUTES; LACTOBACILLALES; LACTOBACILLACEAE; PEDIOCOCCUS.	01-NOV-1995
└ <u>Swiss-Prol:PTSA_STRMU</u>	PTSA_STRMU	<u>P12655</u>	PTS system, sucrose-specific IIABC component (EIIABC-SCR) (Sucrose-permease IIABC component) (Phosphotransferase enzyme II, ABC component) (EC 2.7.1.69) (EII-SCR).	STREPTOCOCCUS MUTANS. BACTERIA; FIRMICUTES; LACTOBACILLALES; STREPTOCOCCACEAE; STREPTOCOCCUS.	01-OCT-1989
└ <u>Swiss-Prol:PTSB_BACSU</u>	PTSB_BACSU	<u>P05306</u>	PTS system, sucrose-specific IIIBC component (EIIIC-SCR) (Sucrose-permease IIIBC component) (Phosphotransferase	BACILLUS SUBTILIS. BACTERIA; FIRMICUTES; BACILLALES; BACILLACEAE; BACILLUS.	01-NOV-1988

			enzyme II, BC component) (EC 2.7.1.69) (EII-SCR).		
└ <u>Swiss-Prot:PTSB_KLEPN</u>	PTSB_KLEPN	<u>P27219</u>	PTS system, sucrose- specific IIBC component (EII-BC-SCR) (Sucrose- permease IIBC component) (Phosphotransférase enzyme II, BC component) (EC 2.7.1.69) (EII-SCR).	KLEBSIELLA PNEUMONIAE. BACTERIA; PROTEOBACTERIA; GAMMAPROTEOBACTERIA; ENTEROBACTERIALES; ENTEROBACTERIACEAE; KLEBSIELLA.	01-AUG-1992
└ <u>Swiss-Prot:PTSB_SALTY</u>	PTSB_SALTY	<u>P08470</u>	PTS system, sucrose- specific IIBC component (EII-BC-SCR) (Sucrose- permease IIBC component) (Phosphotransférase enzyme II, BC component) (EC 2.7.1.69) (EII-SCR).	SALMONELLA TYPHIMURIUM. BACTERIA; PROTEOBACTERIA; GAMMAPROTEOBACTERIA; ENTEROBACTERIALES; ENTEROBACTERIACEAE; SALMONELLA.	01-AUG-1988
└ <u>Swiss-Prot:PTSB_STAXY</u>	PTSB_STAXY	<u>P51184</u>	PTS system, sucrose- specific IIBC component (EII-BC-SCR) (Sucrose- permease IIBC component) (Phosphotransférase enzyme II, BC component) (EC 2.7.1.69) (EII-SCR).	STAPHYLOCOCCUS XYLOSUS. BACTERIA; FIRMICUTES; BACILLALES; STAPHYLOCOCCUS.	01-OCT-1996

Swiss-Prol:PTSB_VIBAL	PTSB_VIBAL	P22825	PTS system, sucrose-specific IIBC component (EIIBC-SCR) (Sucrose-permease IIBC component) (Phosphotransférase enzyme II, BC component) (EC 2.7.1.69) (EIIBC-SCR).	VIBRIO ALGINOLYTICUS. BACTERIA; PROTEOBACTERIA; GAMMAPROTEOBACTERIA; VIBRIONALES; VIBRIONACEAE; VIBRIO.	01-AUG-1991
Swiss-Prol:STP_SP1OL	STP_SP1OL	Q03411	Sucrose transport protein (Sucrose permease) (Sucrose-proton symporter).	SPINACIA OLERACEA (SPINACH). EUKARYOTA; VIRIDIPLANTAE; STREPTOPHYTA; EMBRYOPHYTA; TRACHEOPHYTA; SPERMATOPHYTA; MAGNOLIOPHYTA; EUDICOTYLEDONS; CORE EUDICOTS; CARYOPHYLLALES; AMARANTHACEAE; SPINACIA.	01-JUN-1994
EMBL:SOS21	SOS21	X67125 S51273	S.oleraceae mRNA for sucrose permease	Spinacia oleracea (spinach) Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Caryophyllidae; Caryophyllales;	17-DEC-1992

				lamnids; Solanales; Solanaceae; Nicotiana.	
EMBL:NTSUT1B	NTSUT1B	X82277	RNA	Nicotiana tabacum SUT1b mRNA for sucrose transporter	28-OCT-1994
				Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Asteridae; lamnids; Solanales; Solanaceae; Nicotiana.	
EMBL:STSUCTR	STSUCTR	X69165	RNA	S. tuberosum mRNA for sucrose transporter	23-DEC-1993
				Solanum tuberosum (potato) Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Asteridae; lamnids; Solanales; Solanaceae; Solanum.	
EMBL:VFZ93774	VFZ93774	Z93774	RNA	V. faba mRNA for sucrose transporter	09-APR-1997
				Vicia faba (fava bean) Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Viciae; Vicia.	



## Annex 1.3

Search term = sucrose phosphotransferase

Sucrose transporter coding sequences available in EMBL or SwissProt databases prior to August 07, 1997



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Query "((((([libs={embl swissprot}-Description:sucrose\*] & [libs={embl swissprot}-Description:phosphotransferase\*]) | [libs={embl swissprot}-Description:sucrose phosphotransfera se\*]) & [libs-DateCreated#19000101:19970807]) " found 12 entries

EMBL: Swiss-Prot	ID	Accession Number	Molecule	Description	Organism	Date Created
EMBL:TBAA55334	TBAA55334	AA255334	RNA	T3538 Bloodstream form of serodeme ILTat1.1 Trypanosoma brucei brucei cDNA 5' similar to gpJ03006 Sac gene-sucrose phosphotransferase system [B.subtilis], mRNA sequence.	Trypanosoma brucei brucei Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma; Trypanosoma brucei.	18-MAR-1997
EMBL:BSSACP	BSSACP	J03006 M33761	DNA	B.subtilis sacT gene, complete cds, enzyme II (sacP) gene (of the sucrose phosphotransferase system), complete cds,	Bacillus subtilis Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.	16-JUL-1988

<p>└ <u>EMBL:BSU34876</u></p>	BSU34876	U34876	DNA	and sucrose gene, 5' end.  Bacillus stearothermophilus phosphotransferase system sucrose enzyme II (surP) gene, complete cds.	Geobacillus stearothermophilus Bacteria; Firmicutes; Bacillales; Bacillaceae; Geobacillus.	19-FEB-1997
<p>└ <u>EMBL:S74697</u></p>	S74697	S74697	RNA	4A11 antigen=putative sucrose-specific phosphotransferase enzyme II homolog [mice, testis, mRNA Partial, 775 nt].	Mus sp. Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.	13-MAY-1995
<p>└ <u>Swiss-Prot:PTSA_LACLA</u></p>	PTSA_LACLA	<u>Q04938</u>		PTS system, sucrose- specific IIABC component (EIABC-SCR) (Sucrose- permease IIABC component) (Phosphotransferase enzyme II, ABC component) (EC <u>2.7.1.69</u> ) (EI-SCR) (Fragment).	LACTOCOCCUS LACTIS (SUBSP. LACTIS) (STREPTOCOCCUS LACTIS). BACTERIA; FIRMICUTES; LACTOBACILLALES; STREPTOCOCCACEAE; LACTOCOCCUS.	01-JUN-1994
<p>└ <u>Swiss-Prot:PTSA_PEDPE</u></p>	PTSA_PEDPE	<u>P43470</u>		PTS system, sucrose- specific IIABC component (EIABC-SCR) (Sucrose- permease IIABC component) (Phosphotransferase enzyme II, ABC	PEDIOCOCCUS PENTOSACEUS. BACTERIA; FIRMICUTES; LACTOBACILLALES; LACTOBACILLACEAE; PEDIOCOCCUS.	01-NOV-1995

└	<u>Swiss-Prot:PTSA_STRMU</u>	PTSA_STRMU	<u>P12655</u>	PTS system, sucrose-specific IIBC component (EIIABC-SCR) (Sucrose-permease IIBC component) (Phosphotransferase enzyme II, ABC component) (EC <u>2.7.1.69</u> ) (EII-SCR).	STREPTOCOCCUS MUTANS. BACTERIA; FIRMICUTES; LACTOBACILLALES; STREPTOCOCCACEAE; STREPTOCOCCUS.	01-OCT-1989
└	<u>Swiss-Prot:PTSB_BACSU</u>	PTSB_BACSU	<u>P05306</u>	PTS system, sucrose-specific IIBC component (EIIBC-SCR) (Sucrose-permease IIBC component) (Phosphotransferase enzyme II, BC component) (EC <u>2.7.1.69</u> ) (EII-SCR).	BACILLUS SUBTILIS. BACTERIA; FIRMICUTES; BACILLALES; BACILLACEAE; BACILLUS.	01-NOV-1988
└	<u>Swiss-Prot:PTSB_KLEPN</u>	PTSB_KLEPN	<u>P27219</u>	PTS system, sucrose-specific IIBC component (EIIBC-SCR) (Sucrose-permease IIBC component) (Phosphotransferase enzyme II, BC component) (EC <u>2.7.1.69</u> ) (EII-SCR).	KLEBSIELLA PNEUMONIAE. BACTERIA; PROTEOBACTERIA; GAMMAPROTEOBACTERIA; A; ENTEROBACTERIALES; ENTEROBACTERIACEAE; K1.FRSIF11.A.	01-AUG-1992

└	<u>Swiss-Prol:PTSB_SALTY</u>	PTSB_SALTY	<u>P08470</u>	PTS system, sucrose-specific IIBC component (EIIBC-SCR) (Sucrose-permease IIBC component) (Phosphotransferase enzyme II, BC component) (EC <u>2.7.1.69</u> ) (EI-SCR).	SALMONELLA TYPHIMURIUM. BACTERIA; PROTEOBACTERIA; GAMMAPROTEOBACTERIA; ENTEROBACTERIALES; ENTEROBACTERIACEAE; SALMONELLA.	01-AUG-1988
└	<u>Swiss-Prol:PTSB_STAXY</u>	PTSB_STAXY	<u>P51184</u>	PTS system, sucrose-specific IIBC component (EIIBC-SCR) (Sucrose-permease IIBC component) (Phosphotransferase enzyme II, BC component) (EC <u>2.7.1.69</u> ) (EI-SCR).	STAPHYLOCOCCUS XYLOSUS. BACTERIA; FIRMICUTES; BACILLALES; STAPHYLOCOCCUS.	01-OCT-1996
└	<u>Swiss-Prol:PTSB_VIBAL</u>	PTSB_VIBAL	<u>P22825</u>	PTS system, sucrose-specific IIBC component (EIIBC-SCR) (Sucrose-permease IIBC component) (Phosphotransferase enzyme II, BC component) (EC <u>2.7.1.69</u> ) (EI-SCR).	VIBRIO ALGINOLYTICUS. BACTERIA; PROTEOBACTERIA; GAMMAPROTEOBACTERIA; VIBRIONALES; VIBRIONACEAE; VIBRIO.	01-AUG-1991

## Annex 1.4

Search term = sucrose symporter

Sucrose transporter coding sequences available in EMBL or SwissProt databases prior to August 07, 1997



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EMBL SwissProt	ID	AccNumber	Molecule	Description	Organism	Date created
<a href="#">EMBL:HSZZ29997</a>	HSZZ29997	AA324944	RNA	EST27854 Cerebellum II Homo sapiens cDNA 5' end similar to similar to sucrose/proton symporter.	Homo sapiens (human) Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.	18-APR-1997
<a href="#">EMBL:ATSUC2S</a>	ATSUC2S	X75382	RNA	A.thaliana SUC2 mRNA for sucrose-proton symporter	Arabidopsis thaliana (thale cress) Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids II; Brassicales; Brassicaceae; Arabidopsis.	11-OCT-1993
<a href="#">EMBL:ATSUCIS</a>	ATSUCIS	X75365	RNA	A.thaliana SUC1	Arabidopsis thaliana (thale cress)	11-OCT-1993

				mRNA for sucrose-proton symporter	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids II; Brassicales; Brassicaceae; Arabidopsis.	
EMBL:BV5UT1	BV5UT1	X83850	RNA	B.vulgaris mRNA for sucrose/proton-symporter	Beta vulgaris subsp. vulgaris Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Caryophyllales; Chenopodiaceae; Beta; Beta vulgaris.	18-JAN-1995
EMBL:PMSUC1	PMSUC1	X84379	RNA	P.major mRNA for sucrose-proton symporter	Plantago major (common plantain) Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Asteridae; Lamiales; Antirrhinaceae; Plantagineae; Plantago.	10-FEB-1995
Swiss-Prot:STP_SPIOL	STP_SPIOL	Q03411		Sucrose transport protein (Sucrose permease) (Sucrose-proton symporter).	SPINACIA OLERACEA (SPINACH). EUKARYOTA; VIRIDIPLANTAE; STREPTOPHYTA; EMBRYOPHYTA; TRACHEOPHYTA; SPERMATOPHYTA; MAGNOLIOPHYTA; EUDICOTYLEDONS; CORE EUDICOTS; CARYOPHYLLALES; AMARANTHACEAE; SPINACIA.	01-JUN-1994